

Nepytia pellucidaria* (A Moth)*Priority 3 Species of Greatest Conservation Need (SGCN)****Class:** *Insecta* (Insects)**Order:** *Lepidoptera* (Butterflies, Skippers, And Moths)**Family:** *Geometridae* (Emerald Moths And Allies)**General comments:**

1 EO; documented declines and extirpations in most of range during past 50+ years, but recent reappearances observed in a few places; cause of declines unknown; may be tied to pitch pine, which would limit potential for additional EOs in ME

Species Conservation Range Maps for A Moth:Town Map: [Nepytia pellucidaria Towns.pdf](#)Subwatershed Map: [Nepytia pellucidaria HUC12.pdf](#)**SGCN Priority Ranking - Designation Criteria:****Risk of Extirpation: NA****State Special Concern or NMFS Species of Concern:***Nepytia pellucidaria* is listed as a species of Special Concern in Maine.**Recent Significant Declines: NA****Regional Endemic: NA****High Regional Conservation Priority: NA****High Climate Change Vulnerability: NA****Understudied rare taxa:**

Recently documented or poorly surveyed rare species for which risk of extirpation is potentially high (e.g. few known occurrences) but insufficient data exist to conclusively assess distribution and status. *criteria only qualifies for Priority 3 level SGCN*

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Historical: NA**Culturally Significant: NA****Habitats Assigned to A Moth:****Formation Name Boreal Upland Forest****Macrogroup Name Boreal Upland Forest****Habitat System Name:** Boreal Jack Pine-Black Spruce Forest **Notes:** *potential; probably feeds on jack and red pine in the north***Formation Name Northeastern Upland Forest****Macrogroup Name Central Oak-Pine****Habitat System Name:** Central Appalachian Dry Oak-Pine Forest **Notes:** *potential; where host plant (pitch pine) present***Habitat System Name:** Northeastern Interior Pine Barrens ****Primary Habitat**** **Notes:** *where host plant (pitch pine) present***Stressors Assigned to A Moth:**

No Stressors Currently Assigned to A Moth or other Priority 3 SGCN.

Species Level Conservation Actions Assigned to A Moth:

No Species Specific Conservation Actions Currently Assigned to A Moth or other Priority 3 SGCN.

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Conservation Action	Category: Species Management	Biological Priority: critical	Type: new
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Prepare occurrence maps and pesticide spray consultation guidelines for rare Lepidoptera and distribute to strategic partners including Maine Bureau of Pesticides Control.

Stressor(s) Addressed By This Conservation Action

Agricultural and Forestry Effluents

Conservation Action	Category: Habitat Management	Biological Priority: critical	Type: new
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Conduct a statewide review of potential high quality barrens habitat that is threatened by succession and identify strategic habitat restoration actions for implementation by key conservation partners.

Stressor(s) Addressed By This Conservation Action

Fire and Fire Suppression

Broad Taxonomic Group Conservation Actions:

Additional relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

Habitat Based Conservation Actions:

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.